June 25, 2025 E-mail: [redacted]

CC Weddings and Events
390 Back Street
[redacted]

Attention: Chantal Valkenborg, WPICC

Re: Preparation of a Noise Impact Study Report
390 Back Street, Township of Leeds and the Thousand Islands, Ontario
Pinchin File: 356338

1.0 INTRODUCTION

Pinchin Ltd. (Pinchin) was retained by CC Weddings and Events (Client) to prepare an environmental noise impact study for a proposed Development at 390 Back Street, Township of Leeds and the Thousand Islands, Ontario. The purpose of the study is to satisfy the Township of Leeds and the Thousand Islands zoning bylaw amendment requirements.

Based on a review of information provided by the Client, the proposed Development will include a proposed venue for wedding events.

Figure 1, Appendix B, shows the locations of the proposed Development and noise sensitive receptors.

2.0 NOISE CRITERIA

In this study, Pinchin evaluated the potential noise impact from the proposed Development on nearby sensitive receptor locations.

Pinchin reviewed the Township's noise by-law [1] as the site is located within the municipality. With regards to the noise generation, the noise by-law stipulates general prohibitions and prohibitions by time and place. However, the noise by-law does not provide specific noise criteria with regards to the operation of stationary and transportation sources.

As such, Pinchin adopted the applicable guideline limits outlined in the Ontario Ministry of Environment, Conservation and Parks (MECP) Publication NPC-300 [2].

For this Development, the applicable MECP noise criteria at a point of reception (POR) are dictated by Publication NPC-300 [2] for Class 3 Areas. These guidelines state that the one-hour sound exposures (Leq, 1 hour) from stationary noise sources in Class 3 areas shall not exceed:

- the higher of 45 dBA or background noise between 0700h and 1900h;

- the higher of 40 dBA or background noise between 1900h and 2300h; and
- the higher of 40 dBA or background noise between 2300h and 0700h (excluding outdoor receptors).

A Class 3 area means a rural area where the acoustical environment is dominated by natural sounds having little or no road traffic. Examples of a Class 3 area may include a small community, agricultural area, rural recreational area such as a cottage or a resort area.

3.0 NOISE IMPACT ASSESSMENT

3.1 Noise Sources

Based on the information provided by the Client, the following noise sources were included in this study.

- One (1) vehicle movement path (line/road source Cars);
- Three (3) generators (sources GEN1 to GEN3);
- Two (2) groups of guest voices (GV_Female and GV_Male);
- Two (2) wireless PA systems (sources PA1 and PA2 for daytime operation and PA1_e and PA2_e for evening/nighttime operation); and
- Two (2) speaker systems (sources SP1 and SP2 for daytime operation and SP1_e and SP2_e for evening/nighttime operation).

The vehicle movement path represents the guest arrival or departure. The Client indicated that guests typically arrive between 3 pm and 4 pm. The departure time is typically between 10 pm and 11 pm for the majority of the guests. It was estimated that a maximum of 60 vehicles would arrive or depart the site within the respective hours. This was based on the anticipated 120 guests attending the event. It was assumed that two guests would share one passenger vehicle. The sound power level of the line/road source was estimated based on the Technical Manual for Traffic Noise Model version 3.2 [3].

The Client indicated that there would be two generators (GEN1 and GEN2). The main generator GEN1 is located at the northeast comer of the tent area. The potential model is TMG 7250. The main generator will, on average, operates at 50% load. The backup generator GEN2 is located at the southeast corner of the tent area. The backup generator, a TMG 4000 model, will operate at 25% load.

The Client also indicated that the catering vendor may bring their own generator (GEN3). Since the details of the potential generator were not available at the time this report was prepared, it was assumed that the potential generator (GEN3) would have the same sound power level as the main generator (GEN1).

Sound power levels associated with guest voices and speeches were estimated based on the published research work [4]. Of the 120 guests, 60 are female guests communicating in “loud” voices. The remaining are 60 male guests also communicating in “loud” voices.

Two wireless PA systems will be placed in the guest sitting area. The potential model is Bose S1 Pro. Both systems will be placed on ground and face the guests and altar area. Although the manufacturer provides a maximum sound level of 103 dBA (at 1 m), the modelled sound pressure level is slightly lower than the maximum level. This is based on the assumption that the PA systems are unlikely to operate at the maximum sound output level. The rationale may include the protection of the equipment and conservation of hearing.

In the tent area, there will be two 70-watt speakers. The potential model is Adam Audio Professional T-Series T7V. The manufacturer data suggest a maximum sound level of 110 dBA (at 1 m) for the pair. Similar to the above assumptions, the modelled day and evening/nighttime sound pressure levels are lower than the maximum output level. In addition, the modelled sound power levels between daytime and evening/nighttime hours are different. This is to ensure that the applicable guideline limits are met at selected receptor locations.

Locations of the modelled noise sources are shown in Figure 2, Appendix B. Table 1, Appendix A, lists the details of the modelled noise sources. Details of manufacturer sound data and calculations are provided in Appendix C.

3.2 Points of Reception Description

Points of reception for a noise assessment are those locations identified to be noise sensitive. The Development-attributable sound level is the sum of the individual source contributions at each point of reception. A point of reception, as defined in MECP Publication NPC-300 [2], may be located on a property used for residential, noise sensitive commercial or institutional purposes.

In this assessment, six (6) noise sensitive receptors (R1 to R3, and R1-OPOR to R3-OPOR) were selected from nearby residences. Receptor R1 and R2 represent two-storey homes located to the southwest and south of the site along Back Street, respectively. Receptors R1-OPOR and R2-OPOR are the associated outdoor receptors. Receptor R3 represents a one-storey home located to the southeast of the site along Lyndhurst Road. Receptor R3-OPOR is the associated outdoor receptor.

3.3 Modelling Procedures and Parameters

An acoustic model of the facility was prepared using CadnaA (Version 2025 MR1). CadnaA calculates sound levels surrounding the facility according to the ISO standard 9613-2 [5], “Acoustics – Attenuation of Sound during Propagation Outdoors.” The ISO calculation method, considered conservative, accounts for

reduction in sound level with distance due to geometrical spreading, air absorption, ground attenuation, and acoustical shielding. Calculation parameters were set in accordance with the ISO standard, and detailed protocols can be provided upon request.

The following parameters were used in the acoustic model:

- Ground absorption was set to 0 for reflective surfaces (e.g. roads) and 1.0 for absorptive grounds;
- 1st order reflection was taken into account;
- Temperature of 10 ºC and relative humidity of 70%;
- Barrier coefficients: C1: 3.0; C2: 20.0; C3: 0.0;
- All sources were spectral unless otherwise specified; and
- All buildings and structures had a reflection loss of one (1) dB.

In modelling the noise impacts from the Development, three scenarios were developed based on the time of occurrence.

Scenario 1 – Guest Arrival or Departure

In this scenario, only the vehicle movement was included in the model. As stated in Section 3.1, the typical guest arrival and departure times are between 3 – 4 pm and 10-11 pm, respectively. In each one-hour period, it was assumed that sixty (60) guest vehicles will be arriving or leaving the site. The posted speed limit is 30 km/h.

The sound levels at the receptor locations due to guest vehicle traffic were calculated using the CadnaA implementation of the Traffic Noise Model (TNM). The TNM was published by the United States Federal Highway Administration. The combination of CadnaA-TNM enables the modelling of complex terrain and barrier configurations and the utilization of advanced traffic noise modelling algorithms.

Scenario 2 – Daytime Operation

In this scenario, it was assumed that both the PA systems and speakers could be operating at higher volumes until 7 pm. Specifically, the modelled sound pressure level is 100 dBA at 1 m distance.

Scenario 3 – Evening/Nighttime Operation

In this scenario, it was assumed that both the PA systems and speakers would be operating at lower volumes after 7 pm. Specifically, the modelled sound pressure level is 95 dBA at 1 m distance.

The following table summarizes the modelled equipment operating scenarios:

Noise Equipment/Sources	Scenario 1 – Guest Arrival/Departure	Scenario 2 - Daytime Operation	Scenario 3 - Evening/Nighttime Operation
Vehicle Traffic (Cars)	60 vehicles/hr, 30 km/hr	No Operation	No Operation
PA Systems (PA1/e, 2/e) and Speakers (SP1/e, 2/e)	No Operation	100 dBA at 1 m	95 dBA at 1 m
All Other Sources (GEN1-3, GV_Female, GV_Male)	No Operation	60 minutes/hr	60 minutes/hr

The predicted contributions of each source at the noise sensitive receptor are summarized in Table 2, Appendix A. Tables 3a and 3b, Appendix A, summarize the compliance status of the Development at the selected receptor locations. Noise impact contour maps are presented in Figures 3 to 5, Appendix B. Appendix D includes a sample output at receptor R1.

4.0 CONCLUSIONS

An assessment of the Development attributable sound levels was completed by modelling the individual contributions of the significant noise sources. Predicted worst-case noise levels are shown to meet the applicable NPC-300 Class 3 guideline limits at all receptor locations. Therefore, the Development is expected to be in compliance with the MECP noise requirements.

5.0 TERMS AND LIMITATIONS

This work was performed subject to the Terms and Limitations presented or referenced in the proposal for this project.

Information provided by Pinchin is intended for Client use only. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law. Any use by a third party of reports or documents authored by Pinchin or any reliance by a third party on or decisions made by a third party based on the findings described in said documents, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted. No other warranties are implied or expressed.

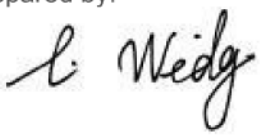
6.0 CLOSURE

Should you have any questions or concerns regarding the contents of this letter, please contact the Project Manager at 647.287.1677 or wli@pinchin.com.

Sincerely,

Pinchin Ltd.

Prepared by:



Weidong Li, PhD., P.Eng.
Senior Project Engineer

Reviewed by:

Aidan Maher, P.Eng.
Senior Project Manager

7.0 REFERENCES

1. Township of Leeds and The Thousand Islands, By-Law 17-021, April 10, 2017.
2. Ministry of the Environment Publication NPC-300, "Environmental Noise Guideline Stationary and Transportation Sources – Approval and Planning", August 2013.
3. U.S. DOT Federal Highway Administration, Technical Manual for Traffic Noise Model 3.2, December 2023.
4. U.S. EPA, Speech Levels in Various Noise Environments, May 1977.
5. ISO 9613-2: 1996, Acoustics – Attenuation of Sound During Propagation Outdoors. Part 2 – General Method of Calculation.

\\pinchin.com\miss\Job\356000s\0356338.000 CCWeddings&Events,390BackSt,ERC,NOISE\Deliverables\0356338.000 Noise Study Report 390 Back St, Thousand Islands June 25, 2025.docx
Template: Master Noise Impact Study Letter, ERC, March 5, 2020

APPENDIX A

Tables

(6 Pages)

Table 1: Noise Source Summary Table

Source ID [1]	Source Description	1/1 Octave Band Sound Power Level (dB, Ref. 10-12 W) [2]										Source Location [3]	Sound Characteristics [4]	Noise Control Measures [5]	Source of Data [6]
		31.5	63	125	250	500	1000	2000	4000	8000	L_w(A)				
Cars	Guest Vehicle Traffic - Arrival or Departure, 60 Vehicles in One Hour					99					**99**	O	S	U	TNM
GEN1	Main Generator					92					**92**	O	S	S, E	Man
GEN2	Backup Generator					81					**81**	O	S	S, E	Man
GEN3	Catering Generator					92					**92**	O	S	S, E	Man
GV_Female	Guest Voices - Female Loud			49	84	88	90	85	82	74	**93**	O	S	U	Cal
GV_Male	Guest Voices - Male Loud			79	89	97	94	88	84	75	**98**	O	S	U	Cal
PA1	Wireless PA System - BoseS1, Daytime Operation (Until 7pm)		118	108	108	107	103	98	98	88	**109**	O	S	U	Cal
PA1_e	Wireless PA System - BoseS1, Evening/Nighttime Operation (Until 7pm)		113	103	103	102	98	93	93	83	**104**	O	S	U	Cal
PA2	Wireless PA System - BoseS1, Daytime Operation (Until 7pm)		118	108	108	107	103	98	98	88	**109**	O	S	U	Cal
PA2_e	Wireless PA System - BoseS1, Evening/Nighttime Operation (Until 7pm)		113	103	103	102	98	93	93	83	**104**	O	S	U	Cal
SP1	Speaker - T7V, Daytime Operation (After 7pm)		118	108	108	107	103	98	98	88	**109**	O	S	U	Cal
SP1_e	Speaker - T7V, Evening/Nighttime Operation (After 7pm)		113	103	103	102	98	93	93	83	**104**	O	S	U	Cal
SP2	Speaker - T7V, Daytime Operation (After 7pm)		118	108	108	107	103	98	98	88	**109**	O	S	U	Cal
SP2_e	Speaker - T7V, Evening/Nighttime Operation (After 7pm)		113	103	103	102	98	93	93	83	**104**	O	S	U	Cal

Notes:

[1] Wherever possible, the Source ID is identical with that used in the ESDM report.

[2] Sound Power Levels of continuous noise sources, in dBA, do not include sound characteristic adjustments per NPC-104. Values are unadjusted, unmitigated PWLs.
Sound Power Levels of impulsive noise sources, in dBAI, are A-weighted incorporating an impulsive time weighting.

[3] Source Location:
O - located/installed outside the building, including on the roof
I - located/installed inside the building

[4] Sound Characteristic
S = Steady
Q = Quasi-Steady Impulsive
I = Impulsive
B = Buzzing
T = Tonal
C = Cyclic

[5] Noise Control Measures
S = Silencer/Muffler
A = Acoustic lining, plenum
B = Barrier, berm, screening
L = Lagging
E = acoustic enclosure
O = other
U = uncontrolled

[6] TNM - Estimate Based on the Technical Manual
Cal = Engineering Calculations
Man - Manufacturer's Data

Table 2: Point of Reception Noise Impact Table

Source ID [1]	Source Description	Point of Reception R1 [2]				Point of Reception R1-OPOR, 1.5 m [2]			
		Distance (m)	Sound Level at POR [3]			Distance (m)	Sound Level at POR [3]		
			Daytime	Evening	Nighttime		Daytime	Evening	Nighttime
Cars	Guest Vehicle Traffic - Arrival or Departure, 60 Vehicles in One Hour	366	30	30	30	337	31	31	31
GEN1	Main Generator	441	15	15	15	409	11	11	11
GEN2	Backup Generator	423	4	4	4	391	0	0	0
GEN3	Catering Generator	436	23	23	23	404	18	18	18
GV_Female	Guest Voices - Female Loud	431	26	26	26	399	26	26	26
GV_Male	Guest Voices - Male Loud	423	30	30	30	392	30	30	30
PA1	Wireless PA System - BoseS1, Daytime Operation (Until 7pm)	396	35	0	0	365	35	0	0
PA1_e	Wireless PA System - BoseS1, Evening/Nighttime Operation (Until 7pm)	396	0	30	30	365	0	30	30
PA2	Wireless PA System - BoseS1, Daytime Operation (Until 7pm)	381	33	0	0	349	34	0	0
PA2_e	Wireless PA System - BoseS1, Evening/Nighttime Operation (Until 7pm)	381	0	28	28	349	0	29	29
SP1	Speaker - T7V, Daytime Operation (After 7pm)	437	39	0	0	405	39	0	0
SP1_e	Speaker - T7V, Evening/Nighttime Operation (After 7pm)	437	0	34	34	405	0	34	34
SP2	Speaker - T7V, Daytime Operation (After 7pm)	435	39	0	0	403	39	0	0
SP2_e	Speaker - T7V, Evening/Nighttime Operation (After 7pm)	435	0	34	34	403	0	34	34

Notes:

[1]. Wherever possible, the Source ID is identical with that used in the ESDM report.

[2]. Point of Reception (POR) height is 4.5 m unless otherwise stated.

[3]. Sound Level Unit

A-Weighted 1-hour equivalent sound level (L_{eq}, 1-hr) in dBA for continuous sources.

Table 2: Point of Reception Noise Impact Table

Source ID [1]	Source Description	Point of Reception R2 [2]				Point of Reception R2-OPOR, 1.5 m [2]			
		Distance (m)	Sound Level at POR [3]			Distance (m)	Sound Level at POR [3]		
			Daytime	Evening	Nighttime		Daytime	Evening	Nighttime
Cars	Guest Vehicle Traffic - Arrival or Departure, 60 Vehicles in One Hour	322	33	33	33	311	27	27	27
GEN1	Main Generator	352	17	17	17	327	13	13	13
GEN2	Backup Generator	331	6	6	6	306	2	2	2
GEN3	Catering Generator	356	24	24	24	334	20	20	20
GV_Female	Guest Voices - Female Loud	344	28	28	28	319	28	28	28
GV_Male	Guest Voices - Male Loud	335	33	33	33	311	32	32	32
PA1	Wireless PA System - BoseS1, Daytime Operation (Until 7pm)	310	36	0	0	287	36	0	0
PA1_e	Wireless PA System - BoseS1, Evening/Nighttime Operation (Until 7pm)	310	0	31	31	287	0	31	31
PA2	Wireless PA System - BoseS1, Daytime Operation (Until 7pm)	296	35	0	0	274	36	0	0
PA2_e	Wireless PA System - BoseS1, Evening/Nighttime Operation (Until 7pm)	296	0	30	30	274	0	31	31
SP1	Speaker - T7V, Daytime Operation (After 7pm)	348	40	0	0	324	39	0	0
SP1_e	Speaker - T7V, Evening/Nighttime Operation (After 7pm)	348	0	35	35	324	0	34	34
SP2	Speaker - T7V, Daytime Operation (After 7pm)	347	40	0	0	322	39	0	0
SP2_e	Speaker - T7V, Evening/Nighttime Operation (After 7pm)	347	0	35	35	322	0	34	34

Notes:

[1]. Wherever possible, the Source ID is identical with that used in the ESDM report.

[2]. Point of Reception (POR) height is 4.5 m unless otherwise stated.

[3]. Sound Level Unit

A-Weighted 1-hour equivalent sound level (L_{eq}, 1-hr) in dBA for continuous sources.

Table 2: Point of Reception Noise Impact Table

Source ID [1]	Source Description	Point of Reception R3 -1.5 m [2]				Point of Reception R3-OPOR, 1.5 m [2]			
		Distance (m)	Sound Level at POR [3]			Distance (m)	Sound Level at POR [3]		
			Daytime	Evening	Nighttime		Daytime	Evening	Nighttime
Cars	Guest Vehicle Traffic - Arrival or Departure, 60 Vehicles in One Hour	467	16	16	16	436	17	17	17
GEN1	Main Generator	379	12	12	12	346	13	13	13
GEN2	Backup Generator	362	1	1	1	329	2	2	2
GEN3	Catering Generator	408	18	18	18	375	19	19	19
GV_Female	Guest Voices - Female Loud	380	26	26	26	347	27	27	27
GV_Male	Guest Voices - Male Loud	373	30	30	30	340	31	31	31
PA1	Wireless PA System - BoseS1, Daytime Operation (Until 7pm)	369	33	0	0	336	33	0	0
PA1_e	Wireless PA System - BoseS1, Evening/Nighttime Operation (Until 7pm)	369	0	28	28	336	0	28	28
PA2	Wireless PA System - BoseS1, Daytime Operation (Until 7pm)	367	32	0	0	335	33	0	0
PA2_e	Wireless PA System - BoseS1, Evening/Nighttime Operation (Until 7pm)	367	0	27	27	335	0	28	28
SP1	Speaker - T7V, Daytime Operation (After 7pm)	380	34	0	0	347	35	0	0
SP1_e	Speaker - T7V, Evening/Nighttime Operation (After 7pm)	380	0	29	29	347	0	30	30
SP2	Speaker - T7V, Daytime Operation (After 7pm)	379	34	0	0	346	35	0	0
SP2_e	Speaker - T7V, Evening/Nighttime Operation (After 7pm)	379	0	29	29	346	0	30	30

Notes:

[1]. Wherever possible, the Source ID is identical with that used in the ESDM report.

[2]. Point of Reception (POR) height is 4.5 m unless otherwise stated.

[3]. Sound Level Unit

A-Weighted 1-hour equivalent sound level (L_{eq}, 1-hr) in dBA for continuous sources.

Table 3a: Acoustic Assessment Summary Table, Guest Arrival / Departure

Point of Reception ID	Point of Reception Description	Time Period [1]	Total Level at POR (L_{eq}, 1-hr) [2]	Verified by Acoustic Audit (Yes/No)	Performance Limit (L_{eq} 1-hr) [3]	Compliance with Performance Limit (Yes/No)
R1	Home to Southwest	Daytime	30	No	45	Yes
		Evening	30	No	40	Yes
		Nighttime	30	No	40	Yes
R1-OPOR	Outdoor Living Area	Daytime	31	No	45	Yes
		Evening	31	No	40	Yes
R2	Home to South	Daytime	32	No	45	Yes
		Evening	32	No	40	Yes
		Nighttime	32	No	40	Yes
R1-OPOR	Outdoor Living Area	Daytime	27	No	45	Yes
		Evening	27	No	40	Yes
R3	Home to Southeast	Daytime	16	No	45	Yes
		Evening	16	No	40	Yes
		Nighttime	16	No	40	Yes
R1-OPOR	Outdoor Living Area	Daytime	17	No	45	Yes
		Evening	17	No	40	Yes

Notes:

[1] The predictable worst-case one (1) hour period was considered in the study.

[2] Worst-case one hour equivalent sound level from all applicable sources operating in dBA.

[3] NPC-300 exclusionary sound level limits of one hour L_{eq} for Class 3 Areas.

Table 3b: Acoustic Assessment Summary Table, Stationary Sources

Point of Reception ID	Point of Reception Description	Time Period [1]	Total Level at POR (L_{eq}, 1-hr) [2]	Verified by Acoustic Audit (Yes/No)	Performance Limit (L_{eq} 1-hr) [3]	Compliance with Performance Limit (Yes/No)
R1	Home to Southwest	Daytime	44	No	45	Yes
		Evening	39	No	40	Yes
		Nighttime	39	No	40	Yes
R1-OPOR	Outdoor Living Area	Daytime	44	No	45	Yes
		Evening	39	No	40	Yes
R2	Home to South	Daytime	44	No	45	Yes
		Evening	40	No	40	Yes
		Nighttime	40	No	40	Yes
R1-OPOR	Outdoor Living Area	Daytime	44	No	45	Yes
		Evening	40	No	40	Yes
R3	Home to Southeast	Daytime	40	No	45	Yes
		Evening	36	No	40	Yes
		Nighttime	36	No	40	Yes
R1-OPOR	Outdoor Living Area	Daytime	41	No	45	Yes
		Evening	37	No	40	Yes

Notes:

[1] The predictable worst-case one (1) hour period was considered in the study.

[2] Worst-case one hour equivalent sound level from all applicable sources operating in dBA.

[3] NPC-300 exclusionary sound level limits of one hour L_{eq} for Class 3 Areas.

APPENDIX B

Figures

(5 Pages)

Figure 1 - Scaled Area Plan, Showing the Development and Receptors

CC Weddings and Events

390 Back Street, Township of Leeds and the Thousand Islands, Ontario

N

Pinchin Project: 356338

Drawn by: WNL

Scale: 1:5,000

Date: June 25, 2025

PINCHIN

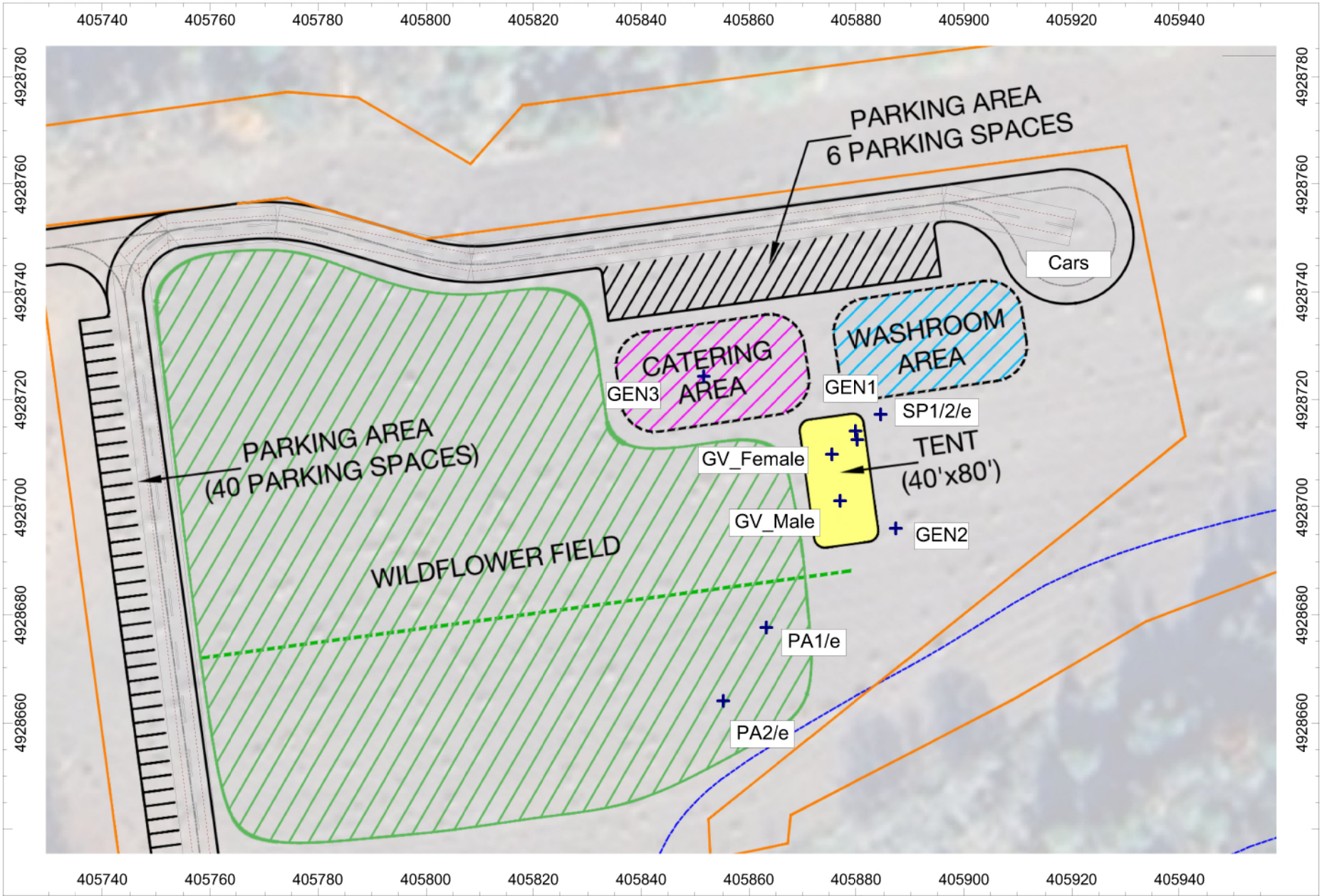


Figure 2 - Site Plan, Showing the Significant Noise Sources

CC Weddings and Events

390 Back Street, Township of Leeds and the Thousand Islands, Ontario

N

Pinchin Project: 356338

Drawn by: WNL

Scale: 1:1,000

Date: June 25, 2025

PINCHIN

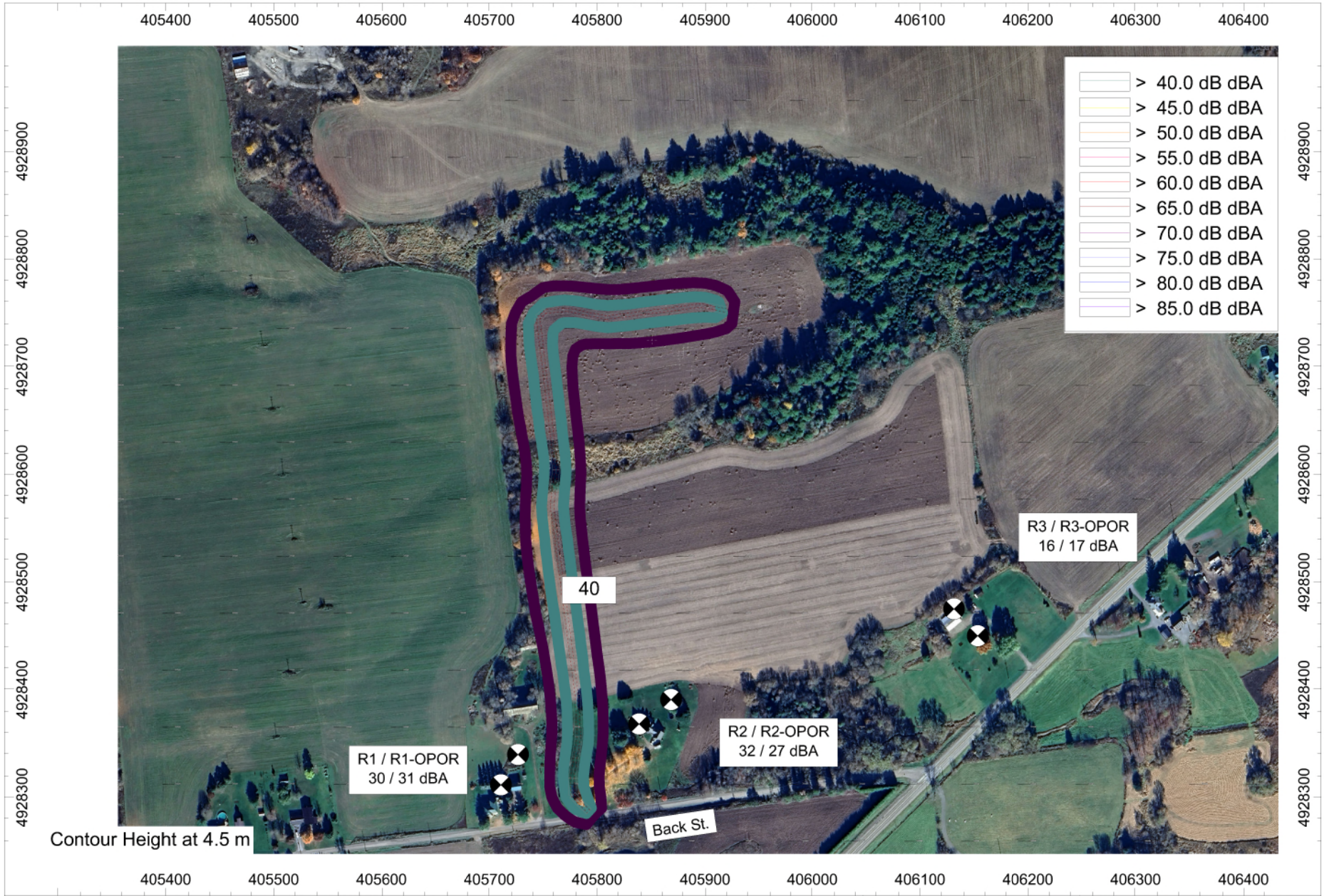


Figure 3 - Scenario 1, Guest Arrival or Departure

CC Weddings and Events

390 Back Street, Township of Leeds and the Thousand Islands, Ontario

N

Pinchin Project: 356338

Drawn by: WNL

Scale: 1:5,000

Date: June 25, 2025

PINCHIN

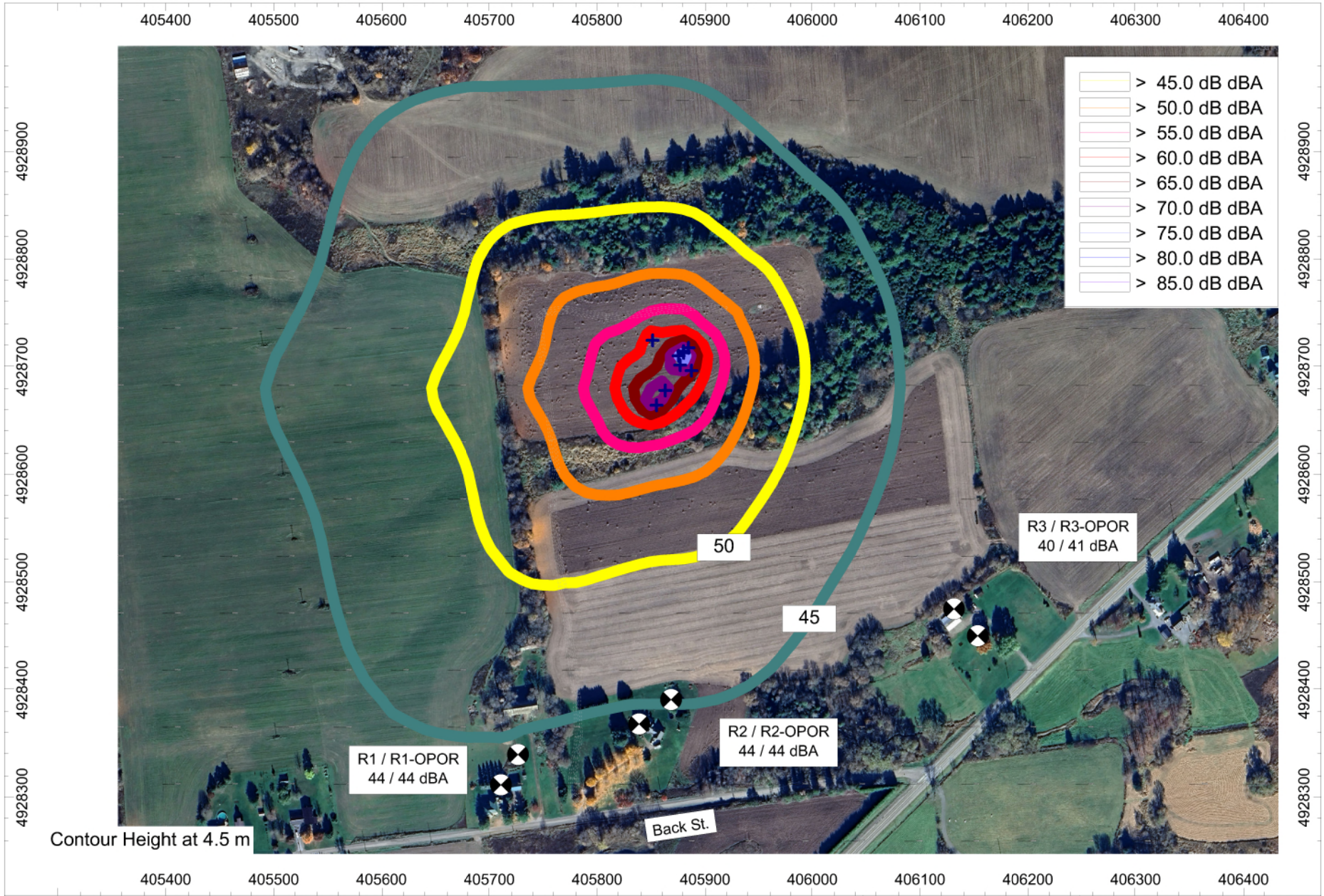


Figure 4 - Scenario 2, Daytime Noise Impact Contour Map

CC Weddings and Events

390 Back Street, Township of Leeds and the Thousand Islands, Ontario

N

Pinchin Project: 356338

Drawn by: WNL

Scale: 1:5,000

Date: June 25, 2025

PINCHIN

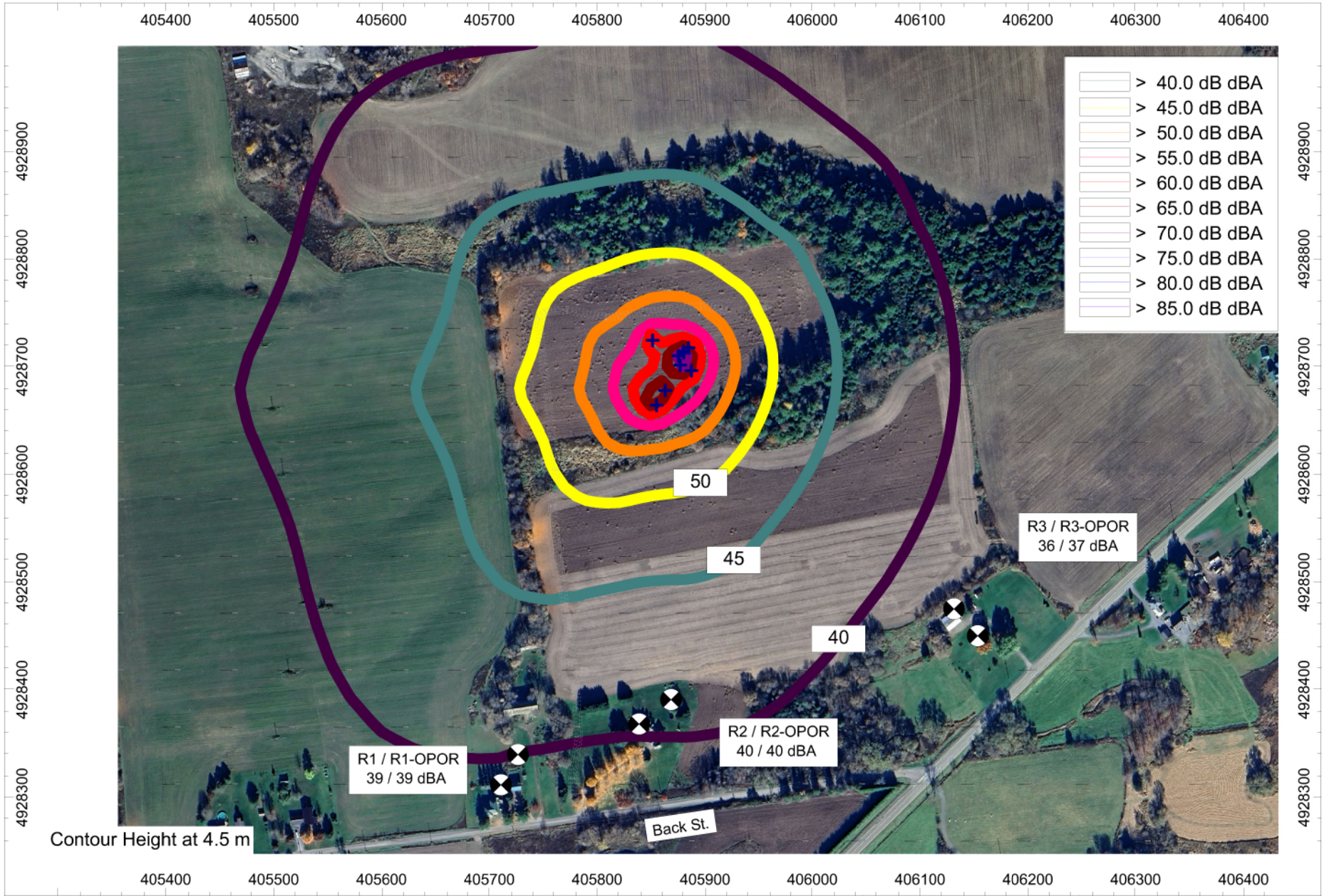


Figure 5 - Scenario 2, Evening/Nighttime Noise Impact Contour Map

CC Weddings and Events

390 Back Street, Township of Leeds and the Thousand Islands, Ontario

N

Pinchin Project: 356338

Drawn by: WNL

Scale: 1:5,000

Date: June 25, 2025

PINCHIN

APPENDIX C

Manufacturer Sound Data and Calculations

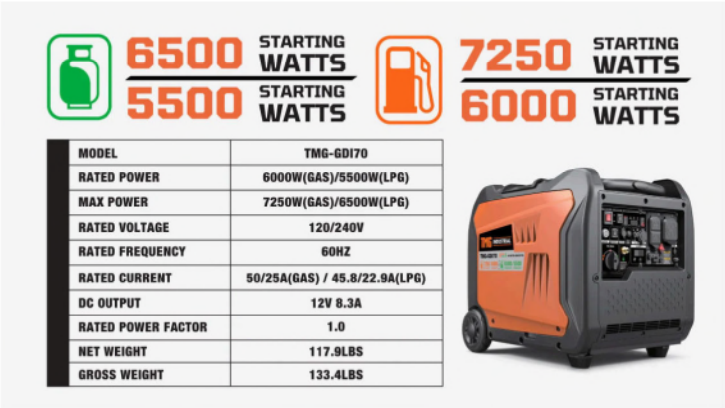
(3 Pages)

Specifications

- Max. power (gas/LPG): 7250/6000 W
- Rated power (gas/LPG): 6500/5000 W
- Rated voltage: 120 V/240 V AC
- Rated frequency: 60 Hz
- Rated current: 50/25 A (gas), 45.8/22.9 A (LPG)
- DC output: 12 V 8.3 A
- Rated power factor: 1.0
- 50% Load Run Time(Hours): 6.5
- 100% Load Run Time(Hours): 3.5
- Fuel tank capacity: 3.6 gal

Engine Specifications

- Type: Four-cycle, dual-fuel conversion, OHV, aluminum head & crankcase
- Displacement: 312 cc
- Start type: Electric/recoil
- Oil capacity: 0.8 L
- Noise level: 7m@50% dB (A) 67, 7m@100% dB (A) 74
- THD <=3%
- Cast iron cylinder liners provide lasting durability



Main Generator - GEN1 - 67 dBA at 7 m @ 50%
Potential Generator - GEN3 by Catering Service Vendor

Shipping Information

The order will be shipped from one of our main warehouses in North America. Under normal circumstances, it will take us 2 to 3 business days to process the order and ship it. It will take up to 10 to 15 business days for the order to get to you based on where you are located and how accessible the location is.

- This product is packed in a carton shipping box
- Shipping dimension: 29” x 20” x 24” (L x W x H)
- Shipping weight: 135 lb

Shipping from Richmond, BC, or Mississauga, ON

What happens after you place your order?

Product Description

The TMG-GDI70 Digital Inverter Hybrid Portable Generator is your new first-choice power solution. This generator offers dual fuel versatility, providing 7250 starting watts with gas and 6000 with LPG, ensuring reliability for home emergencies, job sites, or camping.

Its advanced control center displays vital information like fuel and load levels, with convenient features like Type-C charge ports and an automatic transfer switch outlet. With an electronic fuel level indicator and automatic transfer switch readiness, it's designed for seamless operation and home standby use.

Easy to transport and fully assembled for hassle-free operation—it includes essential features like a low-oil shutoff sensor and EPA compliance, making it both reliable and eco-friendly.

- Max. power: 4000 W
- Rated power: 3200 W
- Rated voltage: 120 V AC
- Rated frequency: 60 Hz
- Rated current: 26.7 A
- DC output: 5V 1 A/2.1 A
- Rated power factor: 1.0
- Fuel tank capacity: 1.0 gal
- 50% Load Run Time(Hours): 3.5
- 100% Load Run Time(Hours): 2

Engine Specifications

- Type: Four-cycle, OHV, aluminum head & crankcase
- Displacement: 145 cc
- Start type: Recoil
- Oil capacity: 0.45 L
- Noise level: 7m@50% dB (A) 62, 7m@100% dB (A) 68 GEN2 - 56 dBA (Est.), 7 m @25%
- THD <=3%
- Cast iron cylinder liners provide lasting durability

Shipping Information

The order will be shipped from one of our main warehouses in North America. Under normal circumstances, it will take us 2 to 3 business days to process the order and ship it. It will take up to 10 to 15 business days for the order to get to you based on where you are located and how accessible the location is.

- This product is packed in a carton shipping box
- Shipping dimension: 20" x 13" x 19" (L x W x H)
- Shipping weight: 55 lb

Shipping from Richmond, BC, or Mississauga, ON

What happens after you place your order?

Product Description

The TMG-GDI40 Digital Inverter Portable Generator is your new trusted power companion. With 4000 starting watts and 3200 running watts, this generator will be your go-to solution for power on the go.

Engineered with inverter technology, it offers clean, stable power; ideal for sensitive electronics like computers and televisions. Its fully enclosed design minimizes noise, making it neighborhood-friendly, as well. Durable construction featuring cast iron cylinder liners make this generator built to last for many years to come.

Hassle-free setup with a built-in carrying handle makes for easy transport around your home, job site, or campground. A low-oil shutoff sensor helps protect your investment long-term, and EPA emissions compliance means it meets stringent environmental standards.

Warranty

Sound Power Level Calculations

1. Voices - Male and Female

	63	125	250	500	1000	2000	4000	8000	LwA	Notes
Loud Voice - Male		50	60	68	65	59	55	46		SPL at 1 m, Pearson - 1977
Sound Power Level - Male		61	71	79	76	70	66	57	**80**	1 Person
Person Adjustment		18	18	18	18	18	18	18		60 Guests
Total Sound Power Level - Male		**79**	**89**	**97**	**94**	**88**	**84**	**75**	**98**	
Loud Voice - Female		20	55	59	61	56	53	45	**64**	SPL at 1 m, Pearson - 1977
Sound Power Level - Female		31	66	70	72	67	64	56	**75**	1 Person
Person Adjustment		18	18	18	18	18	18	18		60 Guests
Total Sound Power Level - Female		**49**	**84**	**88**	**90**	**85**	**82**	**74**	**93**	

2. Speakers and PAs - Daytime

Sound Pressure Level at 1 m 100

	63	125	250	500	1000	2000	4000	8000	LwA	Notes
Overall Sound Power Level	108	108	108	108	108	108	108	108		Based on SPL at 1 m
Octave Band Adjustment	10	0	0	-1	-5	-10	-10	-20		Based on Speaker Measurement
Adjusted Sound Power Level	118	108	108	107	103	98	98	88	**109**	With Adjustment

3. Speakers and PAs - Evening and Nighttime

Sound Pressure Level at 1 m 95

	63	125	250	500	1000	2000	4000	8000	LwA	Notes
Overall Sound Power Level	103	103	103	103	103	103	103	103		Based on SPL at 1 m
Octave Band Adjustment	10	0	0	-1	-5	-10	-10	-20		Based on Speaker Measurement
Adjusted Sound Power Level	113	103	103	102	98	93	93	83	**104**	With Adjustment

APPENDIX D

CadnaA Sample Output

(2 Pages)

Receiver
Name: R1
ID: R1
X: 405710.97 m
Y: 4928311.61 m
Z: 4.50 m

Point Source, ISO 9613, Name: "Wireless PA System - BoseS1, Daytime Operation (7am-7pm)", ID: "PA2"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
26	405855.25	4928664.00	1.20	0	D	A	108.6	0.0	0.0	0.0	-7.9	62.6	1.6	3.0	0.0	0.0	0.0	0.0	0.0	33.4

Point Source, ISO 9613, Name: "Wireless PA System - BoseS1, Daytime Operation (7am-7pm)", ID: "PA1"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
32	405863.25	4928677.63	1.20	0	D	A	108.6	0.0	0.0	0.0	-5.8	63.0	1.7	3.0	0.0	0.0	0.0	0.0	0.0	35.1

Point Source, ISO 9613, Name: "Speaker - T7V, Daytime Operation (7am-7pm)", ID: "SP2"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
34	405880.22	4928712.55	1.20	0	D	A	108.6	0.0	0.0	0.0	-0.8	63.8	1.8	3.1	0.0	0.0	0.0	0.0	0.0	39.2

Point Source, ISO 9613, Name: "Speaker - T7V, Daytime Operation (7am-7pm)", ID: "SP1"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
36	405879.91	4928714.14	1.20	0	D	A	108.6	0.0	0.0	0.0	-0.8	63.8	1.8	3.1	0.0	0.0	0.0	0.0	0.0	39.1

Point Source, ISO 9613, Name: "Guest Voices - Male Loud", ID: "GV_Male"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
38	405877.04	4928701.17	1.50	0	D	A	97.7	0.0	0.0	0.0	0.0	63.5	1.7	2.1	0.0	0.0	0.0	0.0	0.0	30.3

Point Source, ISO 9613, Name: "Guest Voices - Female Loud", ID: "GV_Female"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
40	405875.49	4928709.83	1.50	0	D	A	92.7	0.0	0.0	0.0	0.0	63.7	2.4	1.2	0.0	0.0	0.0	0.0	0.0	25.5

Point Source, ISO 9613, Name: "Catering Generator", ID: "GEN3"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
42	405851.61	4928724.30	1.50	0	D	A	91.9	0.0	0.0	0.0	0.0	63.8	0.8	4.8	0.0	0.0	0.0	0.0	0.0	22.5

Point Source, ISO 9613, Name: "Main Generator", ID: "GEN1"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
44	405884.57	4928717.22	0.60	0	D	A	91.9	0.0	0.0	0.0	0.0	63.9	0.9	11.8	0.0	0.0	0.0	0.0	0.0	15.4

Point Source, ISO 9613, Name: "Backup Generator", ID: "GEN2"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
46	405887.37	4928696.05	0.50	0	D	A	80.9	0.0	0.0	0.0	0.0	63.5	0.8	12.4	0.0	0.0	0.0	0.0	0.0	4.2

Road, TNM, Name: "Guest Vehicles", ID: "Cars"													
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	Ad	Aair	Agr	Afol	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
49	405765.40	4928526.94	0.10	0	D	A	35.5	-20.5	0.0	4.2	0.0	0.0	10.8
60	405773.97	4928461.29	0.10	0	D	A	35.5	-20.9	0.0	4.2	0.0	0.0	10.4
74	405779.69	4928417.53	0.10	0	D	A	35.5	-18.7	0.0	3.4	0.0	0.0	13.4
78	405762.23	4928526.53	0.10	0	D	A	35.5	-20.4	0.0	4.7	0.0	0.0	10.4
86	405770.80	4928460.88	0.10	0	D	A	35.5	-20.8	0.0	4.7	0.0	0.0	10.0
102	405776.51	4928417.11	0.10	0	D	A	35.5	-18.5	0.0	3.9	0.0	0.0	13.1
106	405765.40	4928526.94	1.52	0	D	A	33.5	-20.5	0.0	3.4	0.0	0.0	9.6
112	405773.97	4928461.29	1.52	0	D	A	33.5	-20.9	0.0	2.1	0.0	0.0	10.6
125	405779.69	4928417.53	1.52	0	D	A	33.5	-18.7	0.0	1.2	0.0	0.0	13.7

Road, TNM, Name: "Guest Vehicles", ID: "Cars"													
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	Ad	Aair	Agr	Afol	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
129	405762.23	4928526.53	1.52	0	D	A	33.5	-20.4	0.0	3.5	0.0	0.0	9.6
135	405770.80	4928460.88	1.52	0	D	A	33.5	-20.8	0.0	2.1	0.0	0.0	10.7
138	405776.51	4928417.11	1.52	0	D	A	33.5	-18.5	0.0	1.1	0.0	0.0	13.9
142	405783.63	4928376.03	0.10	0	D	A	35.5	-16.9	0.0	2.4	0.0	0.0	16.1
147	405780.43	4928375.85	0.10	0	D	A	35.5	-16.7	0.0	2.9	0.0	0.0	15.8
159	405780.00	4928326.94	0.10	0	D	A	35.5	-17.3	0.0	1.0	0.0	0.0	17.2
166	405776.84	4928327.46	0.10	0	D	A	35.5	-16.9	0.0	1.7	0.0	0.0	16.9
170	405783.12	4928346.35	0.10	0	D	A	35.5	-18.2	0.0	1.5	0.0	0.0	15.8
173	405779.96	4928346.85	0.10	0	D	A	35.5	-17.9	0.0	2.2	0.0	0.0	15.4
180	405778.66	4928309.89	0.10	0	D	A	35.5	-17.9	0.0	0.9	0.0	0.0	16.7
187	405775.46	4928309.81	0.10	0	D	A	35.5	-17.4	0.0	1.5	0.0	0.0	16.5
190	405783.63	4928376.03	1.52	0	D	A	33.5	-16.9	0.0	0.5	0.0	0.0	16.0
204	405780.43	4928375.85	1.52	0	D	A	33.5	-16.7	0.0	0.5	0.0	0.0	16.3
214	405780.00	4928326.94	1.52	0	D	A	33.5	-17.3	0.0	0.2	0.0	0.0	16.1
225	405776.84	4928327.46	1.52	0	D	A	33.5	-16.9	0.0	0.1	0.0	0.0	16.5
236	405783.12	4928346.35	1.52	0	D	A	33.5	-18.2	0.0	0.3	0.0	0.0	15.0
239	405779.96	4928346.85	1.52	0	D	A	33.5	-17.9	0.0	0.2	0.0	0.0	15.4
250	405778.66	4928309.89	1.52	0	D	A	33.5	-17.8	0.0	0.1	0.0	0.0	15.6
256	405775.46	4928309.81	1.52	0	D	A	33.5	-17.4	0.0	0.0	0.0	0.0	16.1
260	405781.84	4928299.43	0.10	0	D	A	35.5	-20.3	0.0	0.5	0.0	0.0	14.7
266	405779.49	4928297.27	0.10	0	D	A	35.5	-20.0	0.0	1.5	0.0	0.0	13.9
276	405789.29	4928291.88	0.10	0	D	A	35.5	-20.7	0.0	0.6	0.0	0.0	14.1
282	405787.08	4928289.56	0.10	0	D	A	35.5	-20.6	0.0	1.9	0.0	0.0	13.0
292	405781.84	4928299.43	1.52	0	D	A	33.5	-20.2	0.0	0.4	0.0	0.0	12.9
300	405779.49	4928297.27	1.52	0	D	A	33.5	-20.0	0.0	0.1	0.0	0.0	13.4
307	405789.29	4928291.88	1.52	0	D	A	33.5	-20.7	0.0	0.6	0.0	0.0	12.2
314	405787.08	4928289.56	1.52	0	D	A	33.5	-20.6	0.0	0.2	0.0	0.0	12.7
319	405753.54	4928688.66	0.10	0	D	A	35.5	-24.1	0.0	5.6	0.0	0.0	5.8
330	405750.36	4928688.27	0.10	0	D	A	35.5	-24.0	0.0	5.9	0.0	0.0	5.5
334	405753.54	4928688.66	1.52	0	D	A	33.5	-24.1	0.0	5.7	0.0	0.0	3.8
338	405750.36	4928688.27	1.52	0	D	A	33.5	-24.0	0.0	5.9	0.0	0.0	3.6
343	405761.65	4928587.14	0.10	0	D	A	35.5	-26.9	0.0	4.3	0.0	0.0	4.2
348	405758.47	4928587.51	0.10	0	D	A	35.5	-26.9	0.0	5.0	0.0	0.0	3.5
352	405852.57	4928749.47	0.10	0	D	A	35.5	-26.9	0.0	6.3	0.0	0.0	2.3
358	405852.17	4928752.65	0.10	0	D	A	35.5	-27.0	0.0	6.2	0.0	0.0	2.3
364	405761.65	4928587.14	1.52	0	D	A	33.5	-26.8	0.0	4.1	0.0	0.0	2.6
371	405758.47	4928587.51	1.52	0	D	A	33.5	-26.8	0.0	4.4	0.0	0.0	2.2
379	405762.01	4928618.18	0.10	0	D	A	35.5	-28.5	0.0	4.8	0.0	0.0	2.1
392	405758.83	4928617.81	0.10	0	D	A	35.5	-28.5	0.0	6.2	0.0	0.0	0.8
396	405852.57	4928749.47	1.52	0	D	A	33.5	-26.9	0.0	6.6	0.0	0.0	-0.0
402	405852.17	4928752.65	1.52	0	D	A	33.5	-27.0	0.0	6.6	0.0	0.0	-0.1
405	405762.01	4928618.18	1.52	0	D	A	33.5	-28.5	0.0	4.6	0.0	0.0	0.3
408	405758.83	4928617.81	1.52	0	D	A	33.5	-28.5	0.0	5.2	0.0	0.0	-0.2
412	405790.14	4928747.48	0.10	0	D	A	35.5	-30.4	0.0	5.6	0.0	0.0	-0.5
418	405790.77	4928750.62	0.10	0	D	A	35.5	-30.5	0.0	5.5	0.0	0.0	-0.5
423	405790.14	4928747.48	1.52	0	D	A	33.5	-30.4	0.0	5.8	0.0	0.0	-2.7
426	405790.77	4928750.62	1.52	0	D	A	33.5	-30.5	0.0	5.8	0.0	0.0	-2.8
429	405907.85	4928752.71	0.10	0	D	A	35.5	-32.9	0.0	6.7	0.0	0.0	-4.1
432	405908.48	4928755.85	0.10	0	D	A	35.5	-33.0	0.0	6.6	0.0	0.0	-4.2
435	405762.37	4928750.31	0.10	0	D	A	35.5	-33.0	0.0	5.9	0.0	0.0	-3.4
438	405762.12	4928753.50	0.10	0	D	A	35.5	-33.0	0.0	5.8	0.0	0.0	-3.4
441	405907.85	4928752.71	1.52	0	D	A	33.5	-32.9	0.0	7.1	0.0	0.0	-6.5
444	405908.48	4928755.85	1.52	0	D	A	33.5	-33.0	0.0	7.1	0.0	0.0	-6.6
447	405762.37	4928750.31	1.52	0	D	A	33.5	-33.0	0.0	6.1	0.0	0.0	-5.6
450	405762.12	4928753.50	1.52	0	D	A	33.5	-33.0	0.0	6.2	0.0	0.0	-5.7
453	405749.64	4928746.89	0.10	0	D	A	35.5	-36.3	0.0	5.7	0.0	0.0	-6.5
456	405747.55	4928749.32	0.10	0	D	A	35.5	-36.3	0.0	5.7	0.0	0.0	-6.6
459	405749.64	4928746.89	1.52	0	D	A	33.5	-36.3	0.0	5.9	0.0	0.0	-8.6
462	405747.55	4928749.32	1.52	0	D	A	33.5	-36.3	0.0	6.0	0.0	0.0	-8.8